

## EAST Search History

Ref #	Hits	Search Query <i>RWN</i>	DBs <i>RWN</i>	Default Operator	Plurals	Time Stamp <i>RWN</i>
S1	1118	(375/343).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/08 11:43
S2	792	(375/147).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/02 16:11
S3	1187	(375/150).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/02 16:11
S4	484	(375/142).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/02 16:12
S5	1389	(375/130).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/02 16:12
S6	13	S1 and (((multi adj input adj multi adj output) or mimo) or sttd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:15
S7	8	S1 and (((multi adj input adj multi adj output) or mimo) or sttd) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:18
S8	7	S2 and (((multi adj input adj multi adj output) or mimo) or sttd) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:20
S9	6	S3 and (((multi adj input adj multi adj output) or mimo) or sttd) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:21

## EAST Search History

S10	1	S4 and (((multi adj input adj multi adj output) or mimo) or sttd) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:22
S11	22	S5 and (((multi adj input adj multi adj output) or mimo) or sttd) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:25
S12	6	preamble same vector same (data or symbol) same spread\$3 same matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:28
S13	135647	preamble same vector and (data or symbol) same spread\$3 or code and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:29
S14	107	preamble same vector and (data or symbol) same (spread\$3 or code) and matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/02 16:29
S15	2	(symbol same preamble same spread\$3 same (weight\$3 or spread\$3) same (vector or matrix)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:33
S16	2	(symbol and preamble and spread\$3 and (vector or matrix)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:34
S17	4	(preamble and spread\$3 and (vector or matrix)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:35
S18	1584	(preamble and spread\$3 and (vector or matrix))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:35
S19	26	(preamble same spread\$3 same (vector or matrix))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:43

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S20	181	(preamble same data same spread\$3) and (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:46
S21	108	(symbol same preamble same spread\$3) and (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:47
S22	11	(symbol same preamble same spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:54
S23	18	(data same preamble same spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:55
S24	15	(data with preamble same spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:55
S25	9	(data with preamble with spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:57
S26	2	(symbol with preamble with spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:58
S27	8	(symbol with preamble same spread\$3) same (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 13:59
S28	33	(symbol with preamble with spread\$3) and (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:14
S29	0	(symbol near5 concatenat\$3 near5 preamble with spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:15

## EAST Search History

S30	1	(symbol near5 concatenat\$3 near5 preamble same spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:15
S31	5	(symbol with concatenat\$3 with preamble same spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:17
S32	17	(data with concatenat\$3 with preamble same spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:20
S33	11	(data near5 concatenat\$3 with preamble same spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:17
S34	5	(symbol with concatenat\$3 with preamble same spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:21
S35	156	(symbol with preamble with spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:22
S36	72	(symbol near5 preamble near5 spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:34
S37	35	(symbol adj preamble with spread\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:35
S38	58	(data near5 preamble with (weight or code) with spread )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:36
S39	104	(data near5 preamble with (weight or code) with spread\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:52

## EAST Search History

S40	461	(375/141).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:52
S41	12	S40 and (mimo or std)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:54
S42	292	(375/144).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:54
S43	21	S42 and (mimo or std)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:58
S44	512	(375/146).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:56
S45	792	(375/147).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:56
S46	934	(375/148).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S47	1188	(375/150).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S48	1227	(375/362).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S49	196	(375/363).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57

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S50	429	(375/364).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S51	611	(375/365).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S52	156	(375/366).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S53	415	(375/367).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S54	713	(375/368).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/05 14:57
S55	29	S44 and (mimo or std)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:59
S56	15	S44 and (mimo or std) and (vector or matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 14:59
S57	4	S44 and (mimo or std) and (vector or matrix) and preamble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:01
S58	4	S44 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:04
S59	1	S45 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:04

## EAST Search History

S60	- 1	S46 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:04
S61	0	S47 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:04
S62	0	S48 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S63	0	S49 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S64	0	S50 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S65	1	S51 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S66	0	S52 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S67	0	S53 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:05
S68	0	S54 and (mimo or std) and (vector or matrix) and preamble and (spread or de\$1spread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:06
S69	11	"375"/.clas. and ((vector or matrix) same preamble same (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:09



## EAST Search History

S70	12	"370"/.clas. and ((vector or matrix) same preamble same (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:18
S71	410	"370"/.clas. and ((matrix or vector) same (weight or code) same (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:19
S72	1306	"370"/.clas. and ((matrix or vector) and (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:20
S73	329	"370"/.clas. and ((matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:21
S74	1	"370"/.clas. and (input adj data adj (matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:22
S75	6	"370"/.clas. and (input adj (matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:23
S76	22	"370"/.clas. and (input near5 (matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:26
S77	94	"370"/.clas. and (data near5 (matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 15:59
S78	104	"370"/.clas. and (signal near5 (matrix or vector) same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 16:05
S79	33	"370"/.clas. and (signal near5 matrix same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 16:06



## EAST Search History

S80	3	"370"/.clas. and (signal adj matrix same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 16:07
S81	17	"370"/.clas. and (data adj matrix same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 16:08
S82	6	"370"/.clas. and (input near3 matrix same (weight or code) with (spread or de\$1spread))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 16:08
S83	2	("5,592,490").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/08 11:43
S84	2	("5,710,768").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/08 11:44
S85	2	("6,144,711").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/08 11:44